

Lab 8: Nervous System Notes

(make sure you stress that all of the diagrams and models are fair game for the practical as well as the upcoming quiz)

Pg. 231: Intro.

- Start by talking about the PNS and CNS.
 - Nervous tissue contains neurons to conduct nerve impulses
 - PNS is the Peripheral Nervous System which controls nerve impulses to and from the brain: composed of cranial nerves and spinal nerves.
 - CNS is the Central Nervous System which includes the spinal cord and the brain.
- Make sure you discuss gray and white matter. **Pgs. 236.**
Gray matter: A butterfly shaped section of the CNS composed of masses of short nerve fibers, interneurons and motor neuron cell bodies.

White matter: Tracts of axons within the CNS

Pg. 234.

- **Go over the human brain diagram and help them fill in the blanks.**
- Go over a few parts of the brain with them and then have them get their sheep brains to look at and compare to the diagram in the book.. **pgs.232, 233 & 234.**

Pg. 237 & 238 The Eye

- The human eye: Have them get their sheep eyes and go over the diagram of the eye while talking about the different parts
- Talk about accommodation: the ability of the eye by using ciliary body to change the shape of the lens enabling it to view near and far objects. This ability is lessened in older people (bifocals).
- Make sure they do the blind spot on pg. 239. and accommodation on pg. 240.

Pg. 241 & 242 : The ear

- Go over the parts of the ear diagram on pg. 241.

Pg. 244: Sense of Touch and Sense of Heat and Cold

- Do both experiments. Show how to do the sense of touch and the sense of cold/hot with one student.

Pg. 247: Laboratory Review 18

- Questions 1-13, skip 14-17, do 18 & 19.